

Appendix B – System Check Plots

Test Date : 2025-01-08 | Ambient Temp : 22.0 °C | Tissue Temp : 21.8 °C

System Performance Check

System Performance Check at 2450 MHz

Verification Source Properties

| Manufacturer | Model No. | Serial No. | Input Power [dBm] |
|--------------|-----------|------------|-------------------|
| SPEAG | D2450 | 1087 | 17.0 |

Exposure Conditions

| Phantom Section | Group | Frequency [MHz] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|-----------------|-------|-----------------|-------------------|------------------------|------------------|
| Flat | CW | 2450.000 | 7.09 | 1.85 | 38.5 |

Hardware Setup

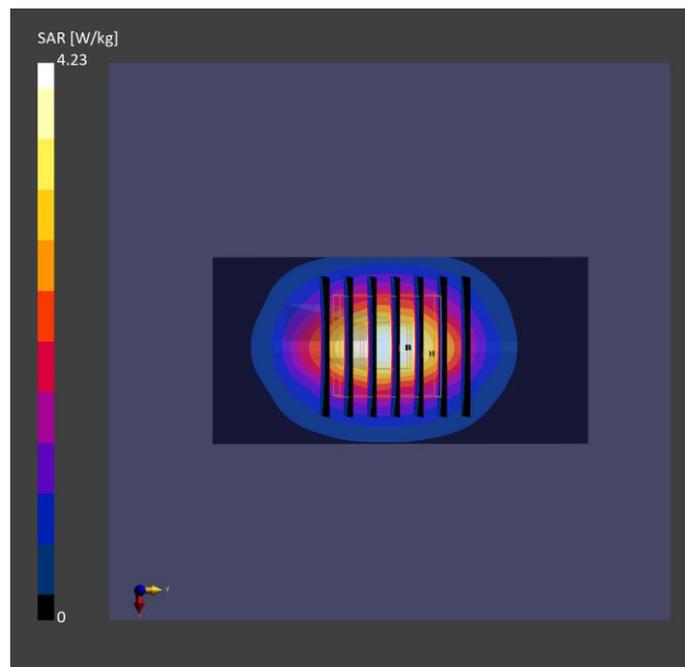
| Phantom | Tissue Simulating Liquid | Probe / Calibration Date | DAE / Calibration Date |
|------------------------------------|--------------------------|------------------------------|--------------------------|
| ELI V8.0 (20deg probe tilt) - 2179 | HBBL-600-10000 | EX3DV4 - SN7650 / 2024-06-04 | DAE4 Sn1742 / 2024-08-15 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|-------------|--------------------|
| Grid Extents [mm] | 40.0 x 80.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.5 |

Measurement Results

| | Area Scan | Zoom Scan |
|------------------|---------------|---------------|
| psSAR-1g [W/kg] | 2.59 | 2.57 |
| psSAR-10g [W/kg] | 1.20 | 1.21 |
| Power Drift [dB] | | 0.01 |
| TSL Correction | Positive only | Positive only |



Test Date : 2025-01-08 | Ambient Temp : 22.0 °C | Tissue Temp : 21.8 °C

System Performance Check

System Performance Check at 6500 MHz

Verification Source Properties

| Manufacturer | Model No. | Serial No. | Input Power [dBm] |
|--------------|-----------|------------|-------------------|
| SPEAG | D6.5GHz | 1081 | 20.0 |

Exposure Conditions

| Phantom Section | Group | Frequency [MHz] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|-----------------|-------|-----------------|-------------------|------------------------|------------------|
| Flat | CW | 6500.000 | 4.64 | 6.3 | 34.5 |

Hardware Setup

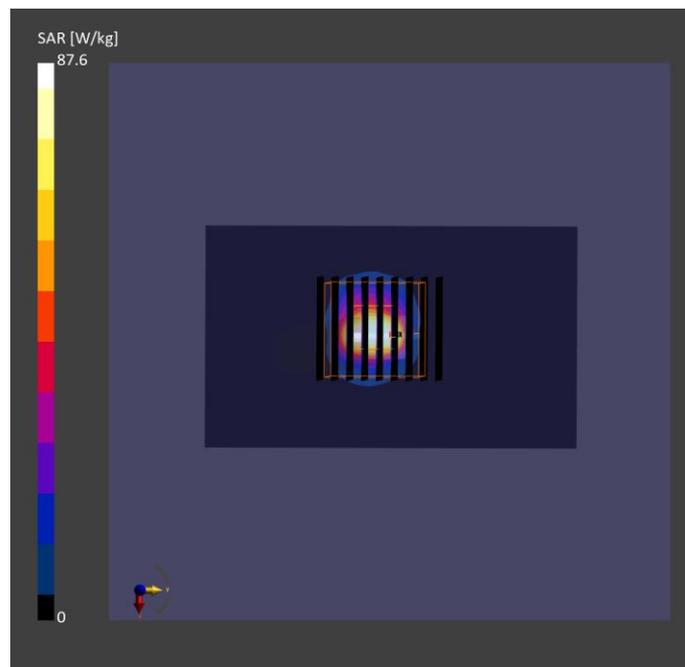
| Phantom | Tissue Simulating Liquid | Probe Calibration Date | DAE Calibration Date |
|------------------------------------|--------------------------|------------------------------|--------------------------|
| ELI V8.0 (20deg probe tilt) - 2179 | HBBL-600-10000 | EX3DV4 - SN7650 / 2024-06-04 | DAE4 Sn1742 / 2024-08-15 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|-------------|--------------------|
| Grid Extents [mm] | 51.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|--|---------------|---------------|
| psSAR-1g [W/kg] | 20.6 | 26.3 |
| psSAR-8g [W/kg] | 5.44 | 5.93 |
| psSAR-10g [W/kg] | 4.51 | 4.87 |
| psAPD (1.0 cm ² , sq) [W/m ²] | | 263 |
| psAPD (4.0 cm ² , sq) [W/m ²] | | 119 |
| Power Drift [dB] | | 0.04 |
| TSL Correction | Positive only | Positive only |



Test Date : 2025-01-08 | Ambient Temp : 22.2 °C

System Performance Check

System Performance Check at 10 GHz

Verification Source Properties

| Manufacturer | Model No. | Serial No. |
|--------------|------------------------------|------------|
| SPEAG | 5G Verification Source 10GHz | 1060 |

Exposure Conditions

| Phantom Section | Group | Frequency [MHz] | Conversion Factor |
|-----------------|-------|-----------------|-------------------|
| 5G | CW | 10000.0 | 1.0 |

Hardware Setup

| Phantom | Medium | Probe / Calibration Date | DAE / Calibration Date |
|---------------|--------|--|--------------------------|
| mmWave - 1102 | Air | EUmmWV4 - SN9639_F1-55GHz / 2024-09-16 | DAE4 Sn1742 / 2024-08-15 |

Scan Setup

| | 5G Scan |
|---------------------|---------------|
| Grid Extents [mm] | 60.0 x 60.0 |
| Grid Steps [mm] | 0.125 x 0.125 |
| Sensor Surface [mm] | 10.0 |

Measurement Results

| | 5G Scan |
|-------------------------------|-------------|
| Avg. Area [cm ²] | 4.00 |
| psPD n+ [W/m ²] | 51.9 |
| psPD tot+ [W/m ²] | 52.2 |
| psPD mod+ [W/m ²] | 52.6 |
| E max [V/m] | 148 |
| Power Drift [dB] | 0.09 |

